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By: Raquel C. West

Date

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2003P14535US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application:

David Petersen

Application No.: 10/741,538

Filed: Dec. 19, 2003

For: ULTRASOUND ADAPTOR METHODS
AND SYSTEMS FOR TRANSDUCER
AND SYSTEM SEPARATION

Examiner: Iman Khddebarin

Group: 3737

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DECLARATION OF ISMAYIL GURACAR

I, Ismayil Guracar, am currently an employee of Siemens Medical Solutions, U.S.A., Ultrasound Division. I have worked as an engineer on ultrasound systems since Sept. 15, 1986.

In my experience, a "transducer assembly," probe or just transducer for use with an ultrasound system ordinarily includes a transducer with elements, a connector, and a cable connecting the transducer to the connector. In the state of the art in 2003, a transducer assembly may have included a multiplexer for routing signals, but not signal processing. The ultrasound system has a fixed connector. The transducer assembly connector detachably connects with the

system connector. The detachment allows the relatively inexpensive transducer assemblies to be interchanged for use with the electronics of the relatively expensive ultrasound system.

I worked on the design of the Sequoia ultrasound system. Wright et al. (U.S. Patent No. 6,029,116) describes, at least in part, the Sequoia ultrasound system. The Sequoia ultrasound system was designed to have the beamformer and other signal processing electronics in the system. The signal processing electronics are in the system and not the transducer assembly.

I have read and understand Wright et al. Based on the reading, Wright et al. does not indicate any signal processing in the transducer assembly, but does describe electronics for performing signal processing in the ultrasound system.

All statements made herein of my own knowledge are true and all statements made on information and belief are believed to be true, and further these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful statements may jeopardize the validity of the application or any patent issuing therefrom.

Respectfully submitted,



Ismayil Guracar

November 29, 2007